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REVIEW OF CURRENT MARKET DEVELOPMENTS ON MANGANESE - 1994

Report by the UNCTAD secretariat

GE.95-50431

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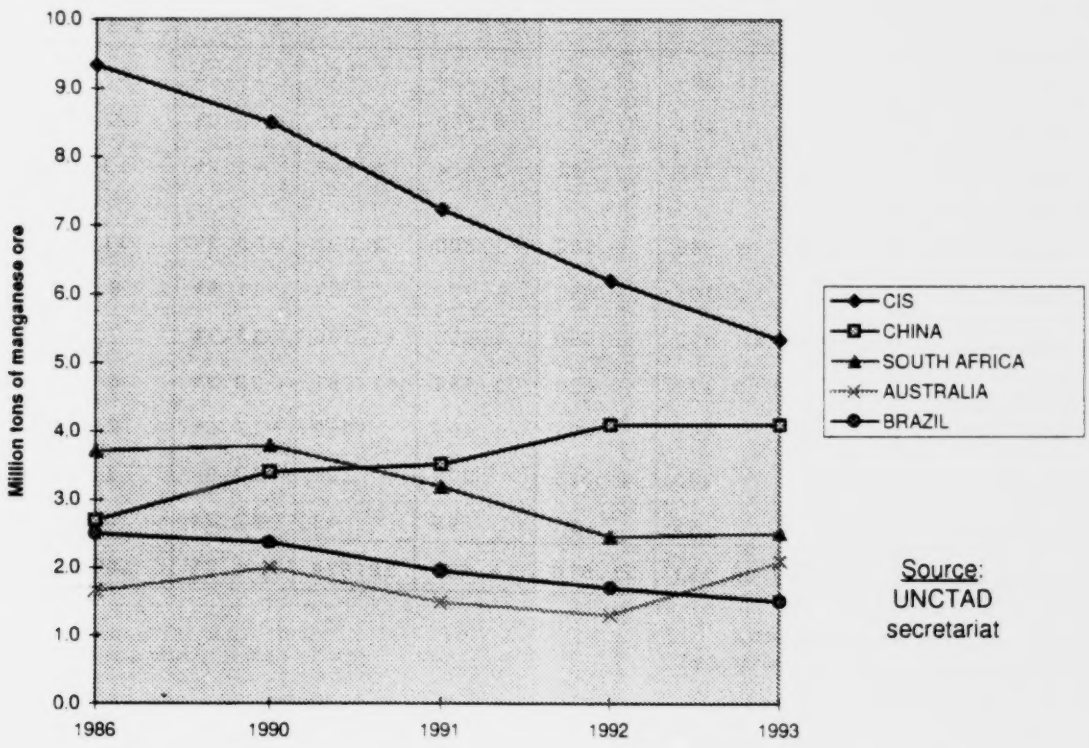
6. World imports of ferromanganese, 1987-1992

1. The world market for manganese ores remained sluggish in 1993. Supply exceeded demand, since the slight increase in consumption in market economy countries was insufficient to offset the impact of much lower manganese use in the CIS and Eastern Europe. As a result, the declining trend in the volume of world transactions of manganese ore continued, and exports were 1.5 per cent lower than in 1992. They amounted to less than 6 million tons in 1993, compared to nearly 9 million tons in 1986. Prices of manganese ores also dropped in 1993, and declined further in 1994.

I. World supply

2. World production of manganese ore totalled 18.7 million tons in 1993, nearly 5 per cent lower than in 1992. This was the lowest level since 1986, 27 per cent below the peak of 1989 when world manganese output exceeded 25.5 million tons. About 48 per cent of global production originates from market economy countries where major producing countries are: South Africa, Australia, Brazil, India and Gabon. The share of the CIS in total manganese output declined from 38 to 29 per cent during the 1986-1993 period. By contrast, China has become a major manganese-producing country, and its share in world output is increasing fast. In 1993, it accounted for 22 per cent of world total output.

Chart 1
Top five manganese producing countries



Source:
UNCTAD
secretariat

3. The manganese industry has been more and more involved in integrated ore-alloys production. The five major ore suppliers known as the manganese mining oligopoly, are now associated with ferro-manganese smelters. Following the example of South Africa, which already in the 1970s became a large alloy producer, Gabon in the 1980s and, more recently in the 1990s, Australia and Brazil have also established joint-ventures with European ferro-alloy producers. Apparently, nowadays it is only in Asia (Japan, the Republic of Korea, and China) that alloy producers have remained independent.

4. The CIS remains the world's largest manganese producer, but its output is mainly for domestic consumption. CIS output has declined sharply by nearly 35 per cent over the past ten years. This was due not only to the sharp drop in local steel production, but also to the fact that the main high-grade reserves are depleting. Ukraine accounts for nearly 75 per cent of CIS manganese production, mostly for its own consumption, but in 1992 and 1993 its output dropped sharply. Georgia has the best quality reserves, but production stopped in 1993 and has not resumed. Kazakhstan has low-grade ores and produces nearly 5 per cent of CIS manganese total output. It managed to maintain its production level unchanged in 1992 and 1993. It seems that the potential to develop new manganese projects in the CIS region exists, but investors remain cautious.

Table 1
Manganese ore production by the ten largest producing countries
(natural weight, thousand metric tons)

	1986	1990	1991	1992	1993	93-92 %	world share % 93
1. CIS	9,336	8,500	7,240	6,204	5,350	-13.8%	29
2. China	2,700	3,404	3,522	4,100	*4,100	+0.0%	22
3. South Africa	3,719	3,792	3,191	2,464	2,507	+1.7%	13
4. Australia	1,649	1,988	1,482	1,300	2,092	+60.9%	11
5. Brazil	2,499	2,361	1,950	1,703	1,507	-11.5%	8
6. India	1,284	1,492	1,550	1,500	*1,300	-13.3%	7
7. Gabon	2,513	2,423	1,620	1,556	*1,091	-29.9%	6
8. Mexico	459	451	275	405	*350	-13.6%	2
9. Ghana	259	380	325	279	309	+10.8%	2
10. Morocco	37	49	59	49	43	-12.2%	...
TOTAL WORLD	**24,798**	**25,181**	**21,510**	**19,588**	**18,674**	**-4.7%**	**100**

Source: UNCTAD secretariat.
... Negligible (or below 0.5%)
* E : Estimates

5. Africa accounted for 20 per cent of world manganese production in 1993. South Africa and Gabon are two major world suppliers of manganese ore. However, as major ferro-alloys plants were closed down in Europe, both countries have been obliged to implement production cutbacks in recent years. Small quantities of manganese are also mined in Ghana, Burkina Faso, Morocco and Côte d'Ivoire. Namibia is reactivating an old mine and planned to start shipments in 1994.

6. Australia and Brazil are both major world suppliers of ores and alloys. Australia's main manganese producer is BHP, which already produced 20 per cent more in 1993 and is expanding the capacity of its ferro-manganese plant. In Brazil, production of manganese ore has declined over the past decade because major deposits exploited by ICOMI are depleting. However, as mining by CVRD of the high-grade Azul reserves found in the Carajas area started in 1985, Brazil in 1993 ranked as the second largest supplier among market-economy countries. India is also a major manganese-producing country and is planning to enter the alloys market.

7. In China, new discoveries of manganese deposits have been announced and the fast expansion of domestic steel production offers good prospects for local manganese producers. Chinese manganese production increased fast after 1985. However, as deposits are of low-grade ores, imports have also grown not only to meet the increasing demand from the steelworks but also because China's exports of ferro-alloys are rapidly increasing.

II. World demand

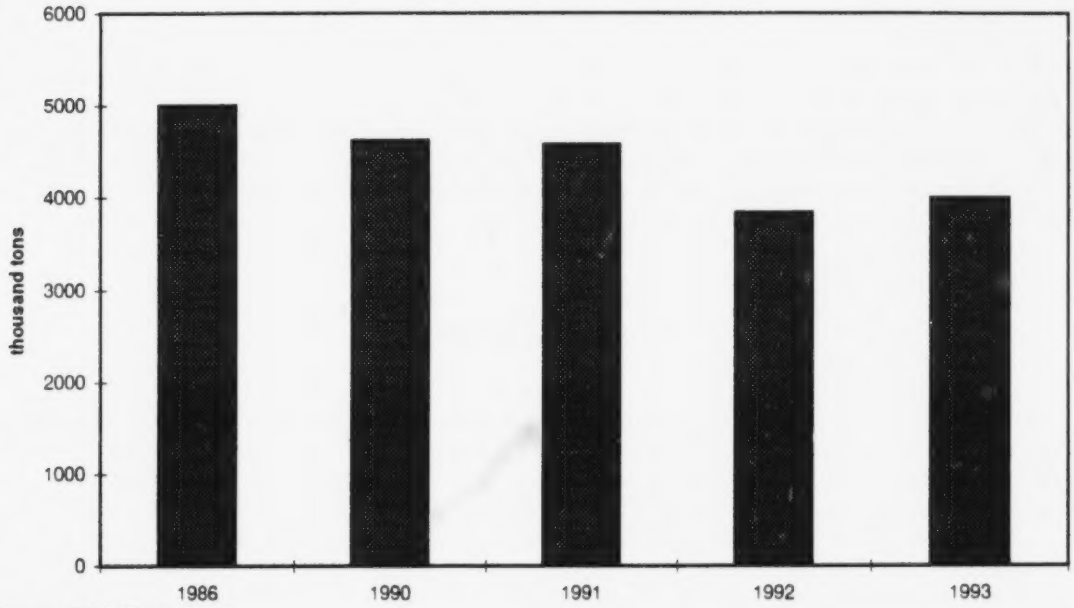
8. About 90 per cent of the world demand for manganese is used to produce manganese ferro-alloys for steelmaking. Consequently, the fortunes of the manganese market are mainly dependent on the steel industry, and in particular on the quality and grade of the steel products made. Technological changes in steelmaking processes and the gradual decline in the intensity of steel use in developed market economy countries led to lower manganese consumption in recent years. Nevertheless, there is no good substitute for manganese in its major applications.

9. On average about 10 kg of manganese is consumed per ton of crude steel. Nowadays, however, some modern steelworks in the OECD region need only 6-9 Kg/ton, while some older plants in Eastern Europe still use up to 12-13kg/ton. With the ongoing modernization of the steel industry, including in the CIS and Eastern Europe, the declining trend in manganese consumption is likely to continue. The use of manganese in other non-metallurgical applications, such as chemicals, ceramics and organic oxidation, is marginal and remains relatively stable.

10. On the other hand, manganese remains the cheapest alloying element and the most widely used. Given its properties to increase the strength, hardness and ductility of steel, today ferro-alloys are used more to produce low carbon steels such as sheets for construction and engineering, as well as to produce non-magnetic special steel products.

11. About 6.5 million tons of manganese alloys were produced worldwide in 1993: nearly 4 million tons of ferro-manganese and 2.5 million tons of silico-manganese. After three years of declining demand and prices, ferro-alloy markets became more stable in 1993. This reflected the sustained level of crude steel production and the peak in world output of stainless steel, which pushed up demand for ferro-chrome and ferro-nickel in most industrialized countries. Moreover, owing to deficit operations, the shutdown and cutbacks of large ferro-manganese and silico-manganese plants in the European Union region also helped to improve the alloys market balance in 1993.

Chart 2
World production of ferro manganese



Source: UNCTAD secretariat

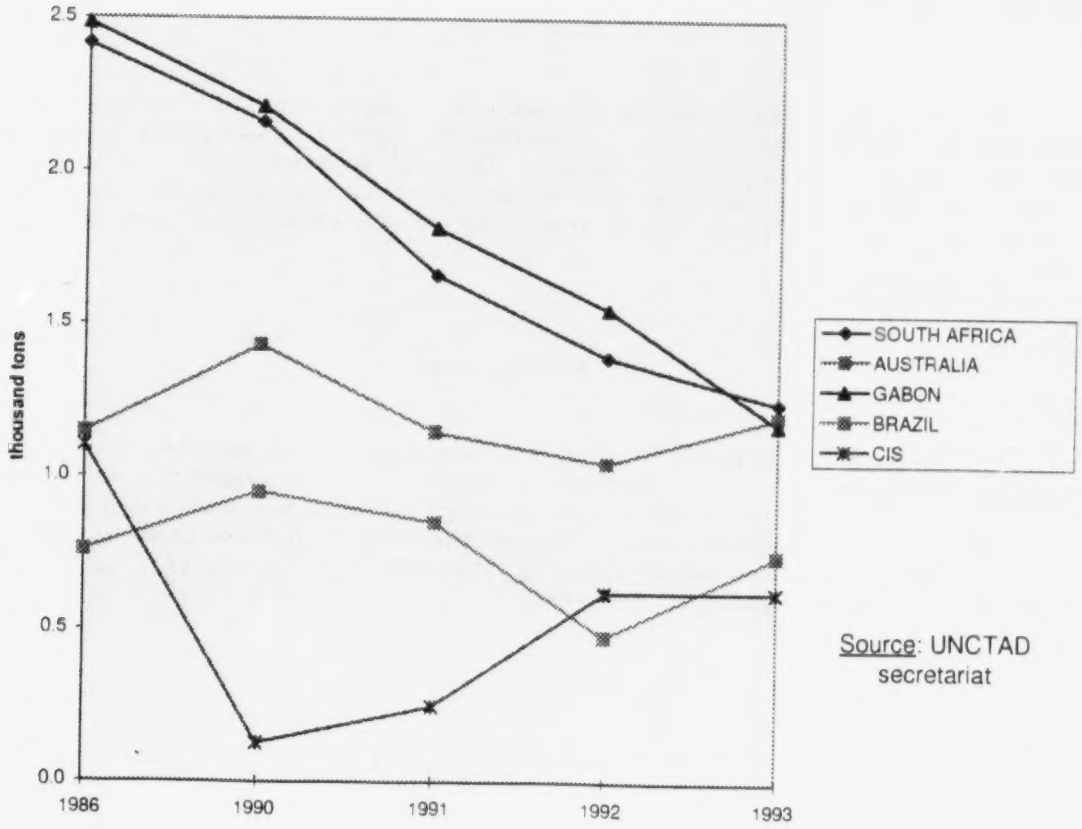
12. The Russian Federation remains the world's largest manganese alloys producer, even though energy shortages forced its plants to operate at only half capacity in 1993. France and Norway remain major importers of ores and top world suppliers of ferro-alloys to the world market. In Brazil, production of manganese ferro-alloys has increased at an annual rate of over 6 per cent during the past ten years, and the country has become a major world supplier of both ores and processed products. The recent closure of alloy plants by Thyssen in Germany and British Steel in the United Kingdom had a strong impact in the market.

III. International trade

13. Competition is leading to greater vertical integration and stronger commercial links between manganese miners in developing countries and ferro-alloy makers in industrialized regions. As larger volumes of ores are now processed locally, international trade in processed products is expanding faster than trade in manganese ore. Therefore, the share of developing countries in world trade of alloys products is increasing. This shift also reflects the fact that production of ferro-alloys in most industrialized countries became commercially unfeasible because of the sharp increase in production costs.

14. To confirm the above trends, namely that world trade of manganese ore is declining but higher quantities of manganese alloys are going to world markets, figures for 1993 show that while exports of manganese ores decreased by 1.5 per cent, exports of ferro-manganese were 25 per cent higher. This move is taking place despite the fact that international trade in alloys has been hampered by restrictive trade measures, such as the imposition of anti-dumping duties by the United States, Japan and the EU against alloy imports from Brazil, China, South Africa and Ukraine which penalized their exports in 1993.

Chart 3
Major exporters of manganese ores



Source: UNCTAD secretariat

15. International trade of manganese ore was around 6 million tons in 1993 compared to nearly 10 million tons in 1984. Among the top exporters, the strongest declines took place in Gabon and South Africa, which were the countries most affected by the shrinkage of the European market. Conversely, Brazil and Australia increased their world sales, since their exports are more oriented to the Asian countries.

Table 2
Major manganese trade partners - 1986, 1993

Major exporters	Share (%) of world exports		Major importers	Share (%) of world imports	
	1986	1993		1986	1993
1. South Africa	24.5	21.1	1. Japan	21.3	23.8
2. Australia	13.0	20.4	2. France	9.0	14.4
3. Gabon	28.3	20.0	3. Norway	9.6	11.5
4. Brazil	8.6	12.7	4. China	2.3	10.0
5. CIS	12.5	10.7	5. Republic of Korea	2.6	7.1

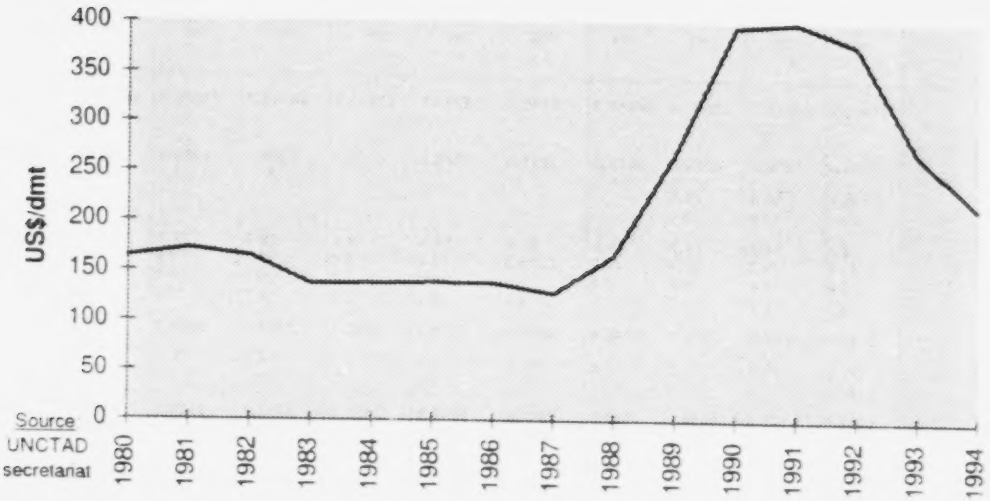
Source: UNCTAD secretariat.

16. All major steel-producing regions outside the CIS - namely the EU, Japan and the United States - rely on manganese imports. Japan remains the most important market for traded manganese ore. In 1993, fuelled by efforts to rebuild stocks, its imports increased by over 25 per cent. France and Norway continue to play an important role as major importers of manganese ore and top alloy suppliers.

IV. World prices

17. Manganese ore is sold on the basis of a dry metric ton (DMT) of contained manganese, of 10kg of Mn content. Since 1990, manganese prices have been declining. In 1994, after three months of negotiations, the benchmark price for annual contracted volumes was settled at US$ 204/DMT, much lower than in 1993 when on average manganese ores were traded at $267/DMT, and nearly half of the peak price of US$ 400/DMT agreed to for 1991.

Chart 4
Evolution of manganese prices



18. Prices for manganese ferro alloys have started to recover. In the case of ferro-manganese and silico-manganese, prices began to move cautiously upward after two years of sharp declines. Average Metal Bulletin quotations for both rose slightly by the end of 1993.

19. High-carbon ferro manganese is usually a cheaper material than manganese metal, and the price of silico-manganese, which is made of low-grade ores, is lower than ferro-manganese. Steelmakers, according to price movements of each material, are able to switch from one product to the other depending on the grade of steel being made and the technological installations of the plants.

20. In 1994, with the recovery of steel demand and higher steel prices, ferro-alloy prices rose mainly during the last quarter of the year, particularly in Europe. Following the general growth in metal prices, an upturn in manganese ore prices is expected for 1995.

STATISTICAL ANNEXES

1. World production of manganese ore, 1981-1992

(thousand metric tons, actual weight)

Region country or area	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
WORLD	**23502.6**	**24216.7**	**22585.6**	**24855.3**	**25193.5**	**24797.5**	**23533.2**	**24248.7**	**25192.9**	**25176.2**	**21508.9**	**20718.2**
DEVELOPED MARKET ECONOMY COUNTRIES	**6728.8**	**6450.4**	**4359.8**	**4975.3**	**5638.8**	**5385.6**	**4754.2**	**5449.0**	**5762.1**	**5789.1**	**4683.6**	**3764.5**
AMERICA	**138.1**	**14.8**	**15.0**	-	-	-	-	-	-	-	-	-
United States	138.1	14.8	15.0	-	-	-	-	-	-	-	-	-
EUROPE	**14.6**	**14.3**	**11.8**	**14.9**	**13.6**	**11.4**	**8.8**	**19.7**	**14.9**	**9.0**	**10.8**	**2.5**
EEC	*14.6*	*14.3*	*11.8*	*14.9*	*13.6*	*11.4*	*8.8*	*19.7*	*14.9*	*9.0*	*10.8*	*2.5*
Greece	5.8	5.6	4.6	5.4	5.0	5.0	5.0	10.0	9.0	3.0	2.5	2.5
Italy	8.8	8.7	7.2	9.5	8.6	6.4	3.8	9.7	5.9	6.0	8.3	-
SOUTH AFRICA	**5039.7**	**5216.3**	**2886.0**	**3049.4**	**3601.0**	**3719.3**	**2892.1**	**3453.0**	**3623.2**	**3792.1**	**3190.8**	**2462.0**
ASIA	**87.2**	**78.0**	**77.0**	**62.0**	**21.0**	**6.0**	-	**0.2**	-	-	-	-
Japan	87.2	78.0	77.0	62.0	21.0	6.0	-	0.2	-	-	-	-
OCEANIA	**1449.0**	**1127.0**	**1370.0**	**1849.0**	**2003.0**	**1648.9**	**1853.3**	**1976.1**	**2124.0**	**1988.0**	**1482.0**	**1300.0**
Australia	1449.0	1127.0	1370.0	1849.0	2003.0	1648.9	1853.3	1976.1	2124.0	1988.0	1482.0	1300.0
DEVELOPING COUNTRIES AND TERRITORIES	**5903.5**	**6062.4**	**5746.9**	**6743.1**	**6841.1**	**7208.7**	**6499.0**	**6306.8**	**6824.8**	**7408.1**	**5991.3**	**6353.7**
AMERICA	**2441.5**	**2751.3**	**2285.4**	**2960.8**	**2753.7**	**2991.9**	**2364.3**	**2263.2**	**2398.4**	**2854.3**	**2261.9**	**2902.3**
Argentina	3.1	1.3	1.3	1.3	1.7	2.6	2.6	2.5	2.6	2.6	2.6	2.6
Brazil	1835.0	2225.0	1898.0	2457.1	2320.0	2498.7	1944.6	1822.0	1904.0	2361.0	1950.0	2471.7
Chile	25.4	16.1	26.1	26.2	35.6	31.6	31.8	43.7	43.8	39.7	34.3	23.0
Mexico	578.0	508.9	360.0	476.2	396.4	459.0	385.3	395.0	448.0	451.0	275.0	405.0
AFRICA	**1855.3**	**1742.0**	**2110.9**	**2558.7**	**2703.5**	**2809.4**	**2699.3**	**2514.7**	**2887.0**	**2846.8**	**2001.4**	**1951.4**
North Africa	**110.0**	**94.0**	**73.5**	**59.1**	**43.7**	**36.7**	**42.5**	**30.1**	**32.0**	**43.8**	**56.0**	**33.0**
Morocco	110.0	94.0	73.5	59.1	43.7	36.7	42.5	30.1	32.0	43.8	56.0	33.0
Other Africa	**1745.3**	**1648.0**	**2037.4**	**2499.6**	**2659.8**	**2772.7**	**2656.8**	**2484.6**	**2835.0**	**2803.0**	**1945.4**	**1918.4**
Gabon	1491.4	1484.5	1862.3	2212.9	2344.2	2513.4	2403.2	2253.7	2500.8	2423.0	1620.4	1556.4
Ghana	223.1	159.9	173.1	286.7	315.6	259.3	253.6	230.9	334.2	380.0	325.0	362.0
Zaire	30.8	3.6	2.0	-	-	-	-	-	-	-	-	-
ASIA	**1575.7**	**1541.7**	**1319.0**	**1204.6**	**1350.9**	**1339.4**	**1325.4**	**1421.9**	**1435.4**	**1587.0**	**1828.0**	**1500.0**
West Asia	**34.9**	**47.3**	**43.2**	**50.5**	**53.8**	**42.9**	**38.9**	**68.9**	**78.9**	**65.0**	**65.0**	-
Iran (Islamic Republic of)	20.0	40.0	40.0	40.0	40.0	34.0	30.0	60.0	68.0	65.0	65.0	-
Turkey	14.9	7.3	3.2	10.5	13.8	8.9	8.9	8.9	8.9	-	-	-
South and South-East Asia	**1540.8**	**1494.4**	**1275.8**	**1154.1**	**1297.1**	**1296.5**	**1286.5**	**1353.0**	**1358.5**	**1522.0**	**1563.0**	**1500.0**
India	1526.0	1468.0	1260.0	1132.4	1258.7	1284.1	1275.1	1332.6	1334.2	1492.0	1550.0	1500.0
Indonesia	2.6	17.9	8.3	12.3	33.5	6.6	1.9	10.3	12.0	14.0	13.0	-
Philippines	1.2	0.7	0.7	0.6	0.4	0.8	0.4	2.2	1.3	-	-	-
Republic of Korea	0.1	0.1	0.1	0.1	0.1	0.1	-	-	-	-	-	-
Thailand	10.9	7.7	6.7	8.7	4.4	4.9	9.1	7.9	11.0	16.0	-	-
EUROPE	**31.0**	**27.4**	**31.6**	**19.0**	**33.0**	**68.0**	**110.0**	**107.0**	**124.0**	**120.0**	**100.0**	-
Yugoslavia (former)	31.0	27.4	31.6	19.0	33.0	68.0	110.0	107.0	124.0	120.0	100.0	-
Least developed countries	**30.8**	**3.6**	**2.0**	-	-	-	-	-	-	-	-	-
Mainly commodity exporting countries	**248.5**	**176.0**	**199.2**	**312.9**	**351.2**	**290.9**	**285.4**	**274.6**	**378.0**	**419.7**	**359.3**	**385.0**
COUNTRIES IN EASTERN EUROPE	**9340.5**	**10004.9**	**10058.9**	**10287.9**	**10089.8**	**9503.2**	**9530.0**	**9250.9**	**9276.0**	**8575.0**	**7310.0**	**6500.0**
Bulgaria	50.0	45.0	45.0	45.0	38.0	37.2	38.1	35.4	40.0	35.0	30.0	-
Czechoslovakia (former)	0.9	0.9	0.9	0.9	0.8	-	-	-	-	-	-	-
Hungary	82.6	83.0	59.0	67.0	63.0	63.0	69.9	42.0	45.0	40.0	40.0	-
Romania	57.0	55.0	78.0	68.0	68.0	67.0	65.0	65.0	50.0	-	-	-
USSR (former)	9150.0	9821.0	9876.0	10089.0	9900.0	9336.0	9357.0	9108.5	9141.0	8500.0	7240.0	6500.0
SOCIALIST COUNTRIES OF ASIA	**1530.0**	**1699.0**	**2420.0**	**2869.0**	**2644.0**	**2700.0**	**2750.0**	**3242.0**	**3330.0**	**3404.0**	**3522.0**	**4100.0**
China	1530.0	1699.0	2420.0	2869.0	2644.0	2700.0	2750.0	3242.0	3330.0	3404.0	3522.0	4100.0

Source: UNCTAD secretariat.

2. World exports of manganese ore, 1987-1992

Region country or area	Quantity (actual weight) (000 MT)						Value (Million US$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
WORLD	**7568.2**	**9831.2**	**9959.8**	**7882.9**	**6731.7**	**5457.2**	**324.5**	**494.0**	**910.0**	**1115.9**	**983.8**	**645.8**
DEVELOPED MARKET ECONOMY COUNTRIES	**3110.7**	**4532.3**	**4791.9**	**3809.7**	**3215.9**	**2685.6**	**122.3**	**250.9**	**389.1**	**554.8**	**485.1**	**338.5**
AMERICA	**58.7**	**65.4**	**50.6**	**70.0**	**211.3**	**17.9**	**4.3**	**7.1**	**4.9**	**9.4**	**27.9**	**2.9**
United States	56.7	65.4	50.6	70.0	211.3	17.9	4.3	7.1	4.9	9.4	27.9	2.9
EUROPE	**182.2**	**178.0**	**175.3**	**149.6**	**192.6**	**223.7**	**23.2**	**25.7**	**33.1**	**32.5**	**36.6**	**34.6**
EEC	*182.2*	*168.0*	*167.3*	*118.6*	*164.8*	*223.7*	*23.1*	*25.1*	*31.9*	*27.1*	*31.2*	*34.6*
Belgium-Luxembourg	0.7	1.4	4.3	0.3	12.9	14.2	0.1	0.2	1.8	0.1	2.3	2.6
France	107.1	95.6	95.0	52.9	97.3	143.7	5.1	5.3	8.5	4.7	8.3	11.9
Germany	2.2	2.9	6.0	11.1	6.8	17.6	0.6	1.0	2.1	3.8	2.7	3.5
Italy	0.5	0.7	0.6	0.1	0.1	0.2	-	0.1	0.1	-	-	-
Netherlands	51.9	57.0	56.4	45.4	48.9	47.9	16.4	17.9	18.3	17.1	16.5	16.5
Portugal	19.5	10.0	4.2	8.4	8.3	-	0.7	0.3	0.8	1.3	1.2	-
United Kingdom	0.3	0.4	0.8	0.4	0.5	0.1	0.2	0.3	0.3	0.1	0.2	0.1
EFTA	-	*10.0*	*8.0*	*31.0*	*27.8*	-	*0.1*	*0.6*	*1.2*	*5.4*	*5.4*	-
Norway	-	10.0	8.0	31.0	27.8	-	0.1	0.6	1.2	5.4	5.4	-
SOUTH AFRICA	**1562.0**	**2735.0**	**2975.0**	**2160.0**	**1662.0**	**1394.0**	**57.1**	**127.8**	**211.1**	**236.6**	**215.4**	**159.1**
ASIA	**1.8**	**0.9**	-	**0.1**	-	-	**0.7**	**0.3**	-	-	-	-
Japan	1.8	0.9	-	0.1	-	-	0.7	0.3	-	-	-	-
OCEANIA	**1306.0**	**1553.0**	**1591.0**	**1430.0**	**1150.0**	**1050.0**	**37.0**	**90.0**	**120.0**	**276.1**	**205.2**	**142.9**
Australia	1306.0	1553.0	1591.0	1430.0	1150.0	1050.0	37.0	90.0	120.0	276.1	205.2	142.9
DEVELOPING COUNTRIES AND TERRITORIES	**3879.2**	**4256.1**	**4228.2**	**3907.2**	**3322.3**	**2641.6**	**170.3**	**205.9**	**509.2**	**542.2**	**459.8**	**291.1**
AMERICA	**974.1**	**1216.8**	**1161.9**	**1015.4**	**869.3**	**553.1**	**37.4**	**55.3**	**74.6**	**91.0**	**91.0**	**44.3**
Brazil	715.8	1048.5	1034.7	950.1	854.0	479.1	27.6	44.6	63.3	83.0	85.6	38.3
Mexico	158.3	168.3	127.2	65.3	15.3	74.0	9.8	10.7	11.3	8.0	5.4	6.0
AFRICA	**2573.2**	**2725.3**	**2727.5**	**2550.7**	**2179.7**	**1874.9**	**126.9**	**140.1**	**170.3**	**424.4**	**353.3**	**235.9**
North Africa	**43.9**	**47.4**	**45.8**	**44.6**	**44.1**	**39.8**	**6.8**	**8.2**	**8.6**	**9.9**	**9.9**	**9.4**
Morocco	43.9	47.4	45.8	44.6	44.1	39.8	6.8	8.2	8.6	9.9	9.9	9.4
Other Africa	**2529.3**	**2677.9**	**2681.7**	**2506.1**	**2135.6**	**1835.1**	**120.1**	**131.9**	**161.7**	**414.5**	**343.4**	**226.5**
Gabon	2290.3	2381.9	2397.7	2211.1	1815.6	1551.1	112.3	123.2	150.0	395.0	324.0	211.0
Ghana	239.0	296.0	284.0	295.0	320.0	284.0	7.8	8.7	11.7	19.5	19.4	15.5
ASIA	**230.8**	**314.0**	**337.9**	**336.0**	**268.3**	**213.6**	**6.0**	**10.5**	**14.3**	**26.6**	**15.3**	**10.9**
West Asia	-	-	**10.3**	**11.7**	-	**8.5**	-	-	**0.7**	**0.6**	-	**0.3**
Turkey	-	-	10.3	11.7	-	8.5	-	-	0.7	0.6	-	0.3
South and South-East Asia	**230.8**	**314.0**	**327.6**	**324.3**	**268.3**	**205.1**	**6.0**	**10.5**	**13.6**	**26.0**	**15.3**	**10.8**
India	225.8	307.7	310.0	317.5	265.3	200.0	5.8	10.2	12.0	24.3	15.2	10.3
Indonesia	5.0	5.7	16.0	6.7	3.0	5.1	0.2	0.2	0.7	1.6	0.1	0.3
Thailand	-	0.6	1.6	0.1	-	-	-	0.1	0.9	0.1	-	-
EUROPE	**1.1**	-	**0.9**	**5.1**	**5.0**	-	-	-	**250.0**	**0.2**	**0.2**	-
Yugoslavia (former)	1.1	-	0.9	5.1	5.0	-	-	-	250.0	0.2	0.2	-
Mainly commodity exporting countries	**239.0**	**296.0**	**284.0**	**295.0**	**320.0**	**284.0**	**7.8**	**8.7**	**11.7**	**19.5**	**19.4**	**15.5**
COUNTRIES IN EASTERN EUROPE	**737.1**	**1002.6**	**910.9**	**138.0**	**174.0**	**125.0**	**29.8**	**35.0**	**30.1**	**17.3**	**17.2**	**14.5**
Bulgaria	11.1	12.2	13.8	8.0	6.0	-	0.4	0.6	0.7	0.6	0.5	-
Hungary	12.0	8.4	2.1	2.0	2.0	-	1.1	1.0	0.2	0.2	0.2	-
USSR (former)	714.0	982.0	895.0	128.0	166.0	125.0	28.3	33.4	29.2	16.5	16.5	14.5
SOCIALIST COUNTRIES OF ASIA	**41.2**	**40.2**	**28.8**	**28.0**	**19.5**	**5.0**	**2.1**	**2.2**	**1.6**	**1.8**	**1.5**	**0.7**
China	41.2	40.2	28.8	28.0	19.5	5.0	2.1	2.2	1.6	1.8	1.5	0.7

Source: UNCTAD secretariat.

3. World imports of manganese ore, 1987-1992

Region country or area	Quantity (actual weight) (000 MT)						Value (Million US$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
WORLD	**8023.0**	**9783.0**	**9933.9**	**7901.2**	**6944.0**	**5789.3**	**453.1**	**655.5**	**851.7**	**1002.1**	**1040.8**	**771.5**
DEVELOPED MARKET ECONOMY COUNTRIES	**4883.0**	**6423.8**	**6252.9**	**5193.6**	**4341.5**	**3860.8**	**294.3**	**459.0**	**612.1**	**691.7**	**670.7**	**544.9**
AMERICA	**471.8**	**653.0**	**748.8**	**448.6**	**236.9**	**140.3**	**30.7**	**50.5**	**72.8**	**63.1**	**43.1**	**35.5**
Canada	173.0	220.0	161.0	140.0	16.0	15.0	11.4	15.4	16.4	15.2	1.7	1.7
United States	298.8	433.0	587.8	308.6	220.9	125.3	19.3	35.1	56.4	47.9	41.4	33.8
EUROPE	**2804.0**	**3835.9**	**3552.2**	**3089.0**	**2433.6**	**2681.9**	**175.2**	**278.7**	**381.4**	**421.5**	**373.8**	**360.1**
EEC	*2162.0*	*2975.4*	*2796.9*	*2343.9*	*1898.3*	*2004.9*	*138.6*	*219.3*	*291.7*	*327.6*	*298.2*	*274.7*
Belgium-Luxembourg	75.5	232.7	308.5	164.3	138.2	149.8	5.0	17.3	35.0	27.3	25.1	23.7
Denmark	0.5	0.4	0.5	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1
France	702.5	1485.5	851.4	754.7	720.1	903.7	46.3	108.9	93.5	121.1	124.3	123.6
Germany	378.6	514.4	546.4	368.6	252.5	285.8	22.0	35.9	57.8	51.2	37.6	48.5
Greece	-	0.1	-	22.7	24.5	23.9	-	0.8	0.1	3.4	3.4	3.6
Ireland	26.3	27.5	37.0	22.7	32.5	33.6	1.6	1.8	2.8	1.9	2.5	2.8
Italy	452.7	264.3	390.1	348.5	240.8	85.1	22.2	15.1	35.9	33.6	25.6	12.5
Netherlands	125.0	53.4	56.0	71.2	65.9	50.1	15.4	9.7	10.3	14.3	11.8	10.5
Portugal	78.1	2.0	2.2	10.3	12.0	2.8	1.3	0.2	0.3	1.1	1.5	0.5
Spain	202.3	199.6	329.3	262.4	56.2	74.3	11.2	14.4	33.4	37.0	9.8	9.4
United Kingdom	120.5	195.5	275.5	318.3	355.3	395.6	13.4	15.1	22.5	36.6	56.5	39.5
EFTA	*642.0*	*860.5*	*755.3*	*745.1*	*535.3*	*657.0*	*36.6*	*57.4*	*69.7*	*93.9*	*75.4*	*85.4*
Austria	0.5	0.3	0.5	0.8	0.5	0.1	0.2	0.1	0.2	0.4	0.2	-
Finland	2.2	1.3	16.8	17.8	8.5	28.6	0.5	0.2	1.5	1.9	1.1	2.5
Norway	628.2	847.2	724.6	726.3	498.8	619.4	35.2	56.1	68.6	91.5	71.2	81.8
Sweden	11.1	11.7	13.4	0.2	27.5	8.9	0.7	1.0	1.4	0.1	2.9	1.1
SOUTH AFRICA	**3.9**	**5.4**	**6.8**	**8.6**	**7.0**	**4.0**	**1.7**	**2.0**	**1.8**	**1.9**	**1.6**	**1.6**
ASIA	**1580.7**	**1923.5**	**1939.0**	**1646.7**	**1663.6**	**1054.4**	**83.9**	**127.9**	**175.6**	**204.9**	**252.3**	**147.7**
Israel	-	-	-	-	-	-	-	0.3	0.1	-	-	-
Japan	1580.7	1923.5	1939.0	1646.7	1663.6	1054.4	83.9	127.6	175.5	204.9	252.3	147.7
OCEANIA	**2.8**	**6.0**	**6.1**	**0.7**	**0.4**	**0.2**	**2.8**	**1.9**	**0.5**	**0.3**	**0.1**	-
Australia	2.5	5.9	6.0	0.6	0.3	0.1	2.7	1.8	0.5	0.3	0.1	-
New Zealand	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-	-	-	-
DEVELOPING COUNTRIES AND TERRITORIES	**1041.1**	**1128.9**	**1194.1**	**1028.4**	**1033.1**	**680.6**	**91.5**	**102.8**	**123.8**	**148.4**	**151.7**	**104.3**
AMERICA	**333.3**	**322.9**	**335.4**	**279.6**	**263.0**	**208.9**	**27.8**	**30.9**	**32.2**	**36.4**	**30.9**	**29.4**
Argentina	60.4	78.4	66.3	97.3	73.8	61.1	3.4	5.9	5.4	11.6	7.9	5.2
Brazil	1.5	1.3	6.9	3.0	0.3	0.1	2.9	2.7	1.5	-	0.1	0.1
Chile	6.1	9.4	22.1	-	-	-	-	-	-	-	-	-
Colombia	12.6	9.8	3.4	7.8	9.4	13.5	2.2	2.0	1.2	1.8	2.4	3.0
Dominican Republic	0.2	0.2	-	-	-	-	0.2	-	-	-	-	-
Guatemala	1.0	0.5	-	-	-	-	0.2	0.2	0.2	0.1	-	-
Jamaica	0.1	0.2	0.3	-	-	-	0.1	0.2	0.3	-	-	-
Mexico	186.4	140.3	167.8	137.5	80.7	71.5	15.1	15.0	17.2	18.2	14.3	12.6
Paraguay	-	-	0.5	0.5	1.7	2.8	-	-	-	-	0.2	0.1
Peru	0.7	0.6	0.6	1.9	0.3	-	0.4	0.2	-	0.7	0.1	-
Trinidad and Tobago	2.0	1.8	3.0	-	-	-	0.2	0.2	-	-	-	-
Venezuela	62.3	80.4	64.7	31.8	96.8	57.9	3.1	4.5	6.4	3.9	5.9	8.4
AFRICA	**7.7**	**8.2**	**6.6**	**7.2**	**7.5**	**15.3**	**3.5**	**3.6**	**2.8**	**3.1**	**4.3**	**3.8**
North Africa	**1.1**	**1.2**	**1.2**	**1.1**	**2.1**	**12.3**	**0.7**	**0.7**	**0.5**	**0.5**	**0.9**	**2.5**
Egypt	0.4	0.4	0.5	0.9	2.0	12.2	0.4	0.4	0.2	0.4	0.8	2.4
Sudan	0.5	0.5	0.5	-	-	-	0.2	0.2	0.2	-	-	-
Tunisia	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Other Africa	**6.6**	**7.0**	**5.4**	**6.1**	**5.4**	**3.0**	**2.8**	**2.9**	**2.3**	**2.6**	**3.4**	**1.3**
Cameroon	3.2	2.8	2.4	2.5	2.4	2.0	1.3	1.0	1.0	1.0	1.1	0.9
Kenya	2.4	3.2	2.0	2.6	2.0	1.0	1.2	1.6	1.0	1.3	1.0	0.4
Nigeria	1.0	1.0	1.0	1.0	1.0	-	0.3	0.3	0.3	0.3	1.3	-
ASIA	**611.9**	**667.2**	**759.1**	**645.5**	**667.6**	**455.4**	**54.4**	**59.7**	**80.4**	**98.4**	**104.0**	**71.1**
West Asia	**28.7**	**22.0**	**10.6**	**7.1**	**6.3**	**5.5**	**11.6**	**9.2**	**5.8**	**6.3**	**5.0**	**4.4**
Iran (Islamic Republic of)	1.0	1.0	1.0	-	-	-	0.2	-	-	-	-	-
Saudi Arabia	26.1	19.5	8.5	5.7	5.0	5.0	10.9	8.8	5.5	5.7	4.5	4.2
Turkey	1.6	1.5	1.1	1.4	1.3	0.5	0.5	0.4	0.3	0.6	0.5	0.2

3. World imports of manganese ore, 1987-1992
(continued)

Region country or area	Quantity (actual weight) (000 MT)						Value (Million US$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
South and South-East Asia												
Hong Kong	583.2	645.2	748.5	638.4	661.3	449.9	42.8	50.5	74.6	90.1	99.0	66.7
India	0 7	0 6	0 6	1 0	0 8	1 5	0 1	0 1	0 1	0 2	0 1	0 2
Indonesia	1 1	4 9	5 0	3 5	3 1	3 0	0 5	0 8	1 0	1 4	1 3	1 1
Malaysia	2 0	1 7	1 4	2 8	2 7	3 6	0 8	0 5	0 4	0 8	0 7	1 1
Pakistan	1 2	0 9	1 0	1 0	1 2	1 0	0 5	0 5	0 5	0 3	0 4	0 4
Philippines	27 7	25 1	11 8	0 5	28 7	0 1	1 2	1 1	0 7	0 1	2 2	-
Republic of Korea	3 6	3 2	3 2	20 2	15 0	4 5	1 4	1 3	1 3	2 0	4 0	2 0
Singapore	368 4	386 6	503 3	387 8	439 0	394 7	18 9	23 7	43 7	49 0	61 9	54 9
Sri Lanka	45 5	51 1	26 1	80 0	46 6	16 4	10 9	10 4	6 4	17 8	11 6	4 0
Taiwan	1 3	0 2	0 1	0 2	0 2	0 1	1 3	0 2	0 2	-	-	-
EUROPE	131 7	170 9	198 0	141 4	125 0	25 0	7 2	11 9	20 3	18 5	16 8	3 0
Yugoslavia (former)	**88.2**	**130.6**	**93.0**	**96.1**	**95.0**	**3.0**	**5.8**	**8.6**	**8.4**	**12.5**	**12.5**	-
Least developed countries	88 2	130 6	93 0	96 1	95 0	3 0	5 8	8 6	8 4	12 5	12 5	-
Mainly commodity exporting countries	**0.5**	**0.5**	**0.5**	-	-	-	**0.2**	**0.2**	**0.2**	-	-	-
COUNTRIES IN EASTERN EUROPE	**7.9**	**10.8**	**23.4**	**0.5**	**1.7**	**2.8**	**0.7**	**0.8**	**0.7**	**0.1**	**0.2**	**0.1**
Bulgaria	**1853.7**	**1893.4**	**2012.1**	**1277.2**	**958.4**	**542.8**	**51.3**	**69.8**	**87.5**	**105.7**	**98.8**	**54.7**
Czechoslovakia (former)	65 0	46 7	19 8	18 0	16 0	1 8	2 5	2 0	0 8	0 8	0 8	0 2
Germany (former DR)	438 0	484 0	871 0	600 0	400 0	200 0	12 8	23 0	27 1	52 7	50 0	23 0
Hungary	56 0	64 5	59 0	30 0	-	-	1 7	2 3	1 9	1 0	-	-
Poland	0 4	-	-	-	0 4	-	-	-	-	-	0 3	-
Romania	682 3	693 2	572 0	105 2	130 0	91 0	10 3	11 0	12 2	13 4	18 3	11 5
USSR (former)	212 0	205 0	205 3	224 0	132 0	100 0	6 5	10 5	14 5	23 8	15 9	12 0
SOCIALIST COUNTRIES OF ASIA	400 0	400 0	285 0	300 0	280 0	150 0	17 5	21 0	11 0	14 0	13 5	8 0
China	**265.2**	**338.9**	**474.8**	**402.0**	**611.0**	**685.1**	**16.0**	**23.9**	**48.3**	**56.3**	**119.4**	**87.8**
Democratic People's Republic of Korea	236 0	276 7	424 8	357 0	561 0	635 1	15 2	22 0	46 7	54 7	117 7	85 9
	29 2	60 2	50 0	45 0	50 0	50 0	0 8	1 9	1 6	1 6	1 7	1 7

Source: UNCTAD secretariat.

4. World production of ferromanganese, 1981-1992

(thousand metric tons)

Region country or area	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
WORLD	**5729.4**	**5388.4**	**4988.9**	**4900.4**	**5045.5**	**5001.7**	**4954.8**	**5202.0**	**4638.9**	**4787.3**	**4414.0**	**4446.3**
DEVELOPED MARKET ECONOMY COUNTRIES	**2546.2**	**2269.5**	**1789.1**	**2277.8**	**2238.0**	**2021.4**	**1942.1**	**2174.7**	**2250.6**	**2302.7**	**2245.8**	**2284.7**
AMERICA	**284.0**	**213.0**	**185.0**	**271.2**	**257.3**	**232.5**	**267.5**	**268.0**	**295.0**	**305.0**	**300.0**	**300.0**
Canada	109.0	105.0	107.0	116.0	118.0	126.0	165.0	161.0	185.0	185.0	180.0	180.0
United States	175.0	108.0	78.0	155.2	139.3	106.5	102.5	105.0	110.0	120.0	120.0	120.0
EUROPE	**1184.9**	**1095.7**	**998.5**	**1210.3**	**1138.7**	**1031.7**	**976.2**	**1025.4**	**1098.3**	**1081.7**	**1099.0**	**1191.0**
EEC	*951.5*	*892.4*	*774.5*	*925.1*	*871.0*	*836.4*	*784.2*	*793.5*	*897.6*	*868.4*	*899.0*	*971.0*
Belgium-Luxembourg	90.0	90.0	90.0	95.0	90.0	87.0	90.0	95.0	95.0	90.0	90.0	100.0
France	312.0	332.0	270.0	329.0	334.0	273.6	295.8	281.0	320.0	290.0	300.0	320.0
Germany	233.0	219.0	151.5	260.4	187.8	222.3	219.5	225.0	250.0	250.0	250.0	270.0
Italy	71.8	73.4	62.0	50.5	67.3	48.0	19.5	27.2	26.7	30.8	32.0	33.0
Portugal	65.0	27.0	33.0	30.0	29.0	20.0	17.0	10.0	13.2	12.0	12.0	13.0
Spain	95.7	90.0	85.0	85.0	86.0	86.0	50.0	48.0	50.0	52.2	55.0	60.0
United Kingdom	84.0	61.0	83.0	75.2	76.9	99.5	92.4	107.3	142.7	143.4	160.0	175.0
EFTA	*233.4*	*203.3*	*224.0*	*285.2*	*267.7*	*195.3*	*192.0*	*231.9*	*200.7*	*213.3*	*200.0*	*220.0*
Norway	233.4	203.3	224.0	285.2	267.7	195.3	192.0	231.9	200.7	213.3	200.0	220.0
SOUTH AFRICA	**441.7**	**366.1**	**186.6**	**236.9**	**331.3**	**337.2**	**315.1**	**446.9**	**403.2**	**403.6**	**259.9**	**245.0**
ASIA	**568.0**	**540.0**	**390.0**	**485.0**	**441.7**	**359.0**	**332.3**	**378.4**	**394.1**	**452.4**	**511.9**	**418.7**
Japan	568.0	540.0	390.0	485.0	441.7	359.0	332.3	378.4	394.1	452.4	511.9	418.7
OCEANIA	**67.6**	**54.7**	**49.0**	**74.4**	**69.0**	**61.0**	**51.0**	**58.0**	**60.0**	**60.0**	**75.0**	**130.0**
Australia	67.6	54.7	49.0	74.4	69.0	61.0	51.0	58.0	60.0	60.0	75.0	130.0
DEVELOPING COUNTRIES AND TERRITORIES	**620.4**	**575.8**	**563.3**	**581.3**	**802.8**	**649.2**	**639.4**	**660.4**	**680.5**	**749.7**	**708.2**	**691.6**
AMERICA	**271.6**	**296.4**	**292.4**	**300.9**	**320.1**	**348.3**	**344.6**	**372.7**	**380.6**	**387.9**	**344.3**	**360.6**
Argentina	25.5	30.6	30.0	28.0	23.6	19.8	21.4	19.7	24.4	23.8	24.0	25.0
Brazil	108.0	120.7	115.2	106.5	134.8	164.1	155.3	180.6	180.7	170.5	169.1	155.4
Chile	5.3	3.0	5.4	4.8	6.5	6.2	6.6	6.9	7.5	7.3	4.0	49.0
Mexico	131.3	140.6	140.3	160.1	153.7	156.4	161.3	165.5	169.0	186.3	147.2	131.2
Venezuela	1.5	1.5	1.5	1.5	1.5	1.8	-	-	-	-	-	-
AFRICA	**2.2**	**2.0**	**1.8**	**1.9**	**1.9**	**8.0**	**8.5**	**2.8**	**1.0**	**1.0**	-	-
Other Africa	**2.2**	**2.0**	**1.8**	**1.9**	**1.9**	**8.0**	**8.5**	**2.8**	**1.0**	**1.0**	-	-
Zimbabwe	2.2	2.0	1.8	1.9	1.9	8.0	8.5	2.8	1.0	1.0	-	-
ASIA	**295.5**	**235.4**	**227.1**	**238.2**	**245.0**	**253.6**	**248.3**	**240.0**	**285.0**	**328.8**	**333.9**	**331.0**
South and South-East Asia	**295.5**	**235.4**	**227.1**	**238.2**	**245.0**	**253.6**	**248.3**	**240.0**	**285.0**	**328.8**	**333.9**	**331.0**
India	209.0	158.0	154.2	158.3	166.0	179.9	173.3	138.3	149.1	201.2	198.0	201.0
Republic of Korea	68.3	60.4	52.9	59.9	61.0	53.7	58.0	75.9	85.3	84.0	85.9	80.0
Taiwan	17.8	17.0	20.0	20.0	18.0	20.0	17.0	25.8	30.6	43.6	50.0	50.0
Thailand	0.4	-	-	-	-	-	-	-	-	-	-	-
EUROPE	**51.1**	**42.0**	**42.0**	**47.3**	**35.8**	**39.3**	**38.0**	**45.1**	**33.9**	**32.0**	**30.0**	-
Yugoslavia (former)	51.1	42.0	42.0	47.3	35.8	39.3	38.0	45.1	33.9	32.0	30.0	-
Mainly commodity exporting countries	**5.3**	**3.0**	**5.4**	**4.8**	**6.5**	**6.2**	**6.6**	**6.9**	**7.5**	**7.3**	**4.0**	**49.0**
COUNTRIES IN EASTERN EUROPE	**1966.8**	**2001.1**	**2076.5**	**1474.3**	**1584.7**	**1636.1**	**1628.1**	**1621.9**	**962.8**	**964.9**	**695.0**	**620.0**
Bulgaria	34.0	34.0	34.0	22.0	30.0	32.0	31.0	31.0	31.0	30.0	30.0	20.0
Czechoslovakia (former)	58.1	53.7	62.5	63.0	62.3	57.6	59.2	60.8	63.5	64.2	55.0	40.0
Germany (former DR)	70.0	64.0	65.0	65.0	63.0	68.0	68.0	68.0	68.0	50.0	-	-
Poland	150.7	134.4	135.0	87.9	99.4	95.5	95.3	91.1	90.3	71.0	60.0	60.0
Romania	70.0	75.0	80.0	87.0	80.0	82.0	81.0	70.0	60.0	49.7	50.0	50.0
USSR (former)	1584.0	1640.0	1700.0	1149.4	1250.0	1301.0	1293.6	1300.0	650.0	700.0	500.0	450.0
SOCIALIST COUNTRIES OF ASIA	**596.0**	**542.0**	**560.0**	**560.0**	**620.0**	**695.0**	**745.0**	**745.0**	**745.0**	**750.0**	**765.0**	**850.0**
China	526.0	472.0	490.0	490.0	550.0	625.0	675.0	675.0	675.0	680.0	695.0	780.0
Democratic People's Republic of Korea	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0

Source: UNCTAD secretariat.

5. World exports of ferromanganese, 1987-1992

Region country or area	Quantity (000 MT)						Value (Million US$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
WORLD	**1140.9**	**1276.1**	**1141.5**	**1200.0**	**962.5**	**860.0**	**409.5**	**579.2**	**674.7**	**750.5**	**594.2**	**553.1**
DEVELOPED MARKET ECONOMY COUNTRIES	**735.9**	**839.8**	**791.3**	**747.7**	**650.5**	**596.8**	**286.6**	**406.2**	**518.9**	**527.2**	**433.1**	**412.5**
AMERICA	**25.7**	**29.7**	**27.9**	**20.5**	**28.3**	**13.9**	**8.7**	**12.6**	**17.0**	**14.3**	**21.1**	**14.2**
Canada	23.1	26.6	21.9	15.0	13.7	0.4	6.6	9.7	9.7	7.6	5.6	0.2
United States	2.6	3.1	6.0	5.5	14.6	13.5	2.1	2.9	7.3	6.7	15.5	14.0
EUROPE	**327.6**	**373.9**	**402.6**	**367.3**	**389.8**	**348.1**	**171.7**	**238.8**	**315.7**	**316.4**	**288.4**	**278.5**
EEC	*150.3*	*168.5*	*233.2*	*193.1*	*244.1*	*197.6*	*84.7*	*116.2*	*176.9*	*166.4*	*177.9*	*127.5*
Belgium-Luxembourg	21.3	24.3	45.8	22.6	34.7	9.0	8.2	11.1	25.8	14.7	19.3	4.2
France	21.1	31.9	21.6	25.7	57.7	57.7	19.6	30.2	28.2	31.9	49.0	35.3
Germany	66.4	80.7	95.1	78.4	56.0	38.0	35.6	52.1	77.4	71.9	45.0	32.4
Italy	3.6	3.8	4.1	4.0	7.9	9.6	3.7	4.5	4.5	5.5	12.6	13.5
Netherlands	1.2	0.1	3.2	0.1	0.3	0.5	0.6	0.1	1.4	0.1	0.4	0.4
Portugal	9.8	3.6	1.0	0.5	-	-	1.7	1.7	0.5	0.3	-	-
Spain	13.1	14.3	24.2	20.4	16.5	23.2	10.9	12.7	18.4	16.4	15.9	12.5
United Kingdom	14.0	9.8	38.2	41.4	71.0	59.6	4.4	3.8	20.7	25.6	35.7	29.2
EFTA	*177.3*	*205.4*	*169.4*	*174.2*	*145.7*	*150.5*	*87.0*	*120.6*	*138.8*	*150.0*	*110.5*	*151.0*
Norway	176.8	204.4	168.5	173.4	145.1	150.0	86.6	119.8	138.0	149.0	109.8	116.0
Sweden	0.5	0.9	0.8	0.7	0.5	0.5	0.4	0.7	0.7	0.9	0.8	35.0
Switzerland	-	0.1	0.1	0.1	0.1	-	-	0.1	0.1	0.1	0.1	-
SOUTH AFRICA	**316.0**	**389.1**	**317.0**	**311.2**	**202.5**	**180.0**	**85.9**	**137.8**	**162.9**	**171.0**	**108.5**	**98.0**
ASIA	**19.1**	**12.8**	**15.1**	**5.6**	**5.0**	**8.4**	**9.8**	**9.1**	**11.7**	**5.9**	**6.0**	**8.2**
Japan	19.1	12.8	15.1	5.6	5.0	8.4	9.6	9.1	11.7	5.9	6.0	8.2
OCEANIA	**47.5**	**34.3**	**28.7**	**43.1**	**24.9**	**46.4**	**10.7**	**9.9**	**11.6**	**19.6**	**11.1**	**15.6**
Australia	47.5	34.3	28.7	43.1	24.9	46.4	10.7	9.9	11.6	19.6	11.1	15.6
DEVELOPING COUNTRIES AND TERRITORIES	**100.7**	**115.5**	**84.8**	**151.8**	**133.3**	**80.8**	**32.6**	**57.3**	**49.5**	**86.3**	**73.2**	**52.4**
AMERICA	**88.9**	**95.2**	**65.6**	**117.7**	**94.1**	**62.7**	**29.1**	**48.7**	**44.2**	**71.6**	**63.2**	**48.8**
Argentina	-	-	-	0.2	0.4	-	-	-	-	0.1	0.3	-
Brazil	49.5	45.8	31.0	65.7	61.2	47.3	13.4	17.7	15.4	34.5	32.1	23.0
Chile	0.6	0.5	0.2	0.2	0.1	-	0.2	0.2	0.2	0.2	-	-
Mexico	38.8	48.9	34.4	51.6	32.4	15.4	15.5	30.8	28.6	36.8	30.7	24.8
Venezuela	-	-	-	-	-	-	-	-	-	-	0.1	1.2
ASIA	**2.3**	**5.1**	**11.3**	**23.9**	**30.2**	**17.9**	**0.3**	**1.2**	**2.8**	**9.1**	**5.0**	**3.6**
West Asia	-	-	-	-	-	-	-	-	-	-	0.3	0.1
Turkey	-	-	-	-	-	-	-	-	-	-	0.3	0.1
South and South-East Asia	**2.3**	**5.1**	**11.3**	**23.9**	**30.2**	**17.9**	**0.3**	**1.2**	**2.8**	**9.1**	**4.7**	**3.5**
India	1.6	3.4	3.5	19.6	19.7	15.0	0.2	1.2	1.3	8.2	4.7	3.5
Philippines	-	-	-	-	4.2	0.3	-	-	-	-	-	-
Republic of Korea	-	-	2.2	1.4	-	-	-	-	1.3	0.9	-	-
Singapore	0.6	1.7	5.6	2.9	6.3	2.6	-	-	-	-	-	-
Taiwan	0.1	-	-	-	-	-	0.1	-	-	-	-	-
EUROPE	**9.5**	**15.2**	**7.9**	**10.2**	**9.0**	-	**3.2**	**7.4**	**2.7**	**5.8**	**5.0**	-
Yugoslavia (former)	9.5	15.2	7.9	10.2	9.0	-	3.2	7.4	2.7	5.6	5.0	-
Mainly commodity exporting countries	**0.8**	**0.5**	**0.2**	**0.2**	**0.1**	-	**0.2**	**0.2**	**0.2**	**0.2**	-	-
COUNTRIES IN EASTERN EUROPE	**291.8**	**265.0**	**245.2**	**230.0**	**105.0**	**103.0**	**86.5**	**96.7**	**97.0**	**100.2**	**52.5**	**49.4**
Bulgaria	1.0	-	-	-	-	-	0.3	-	-	-	-	-
Czechoslovakia (former)	16.8	15.0	15.2	10.0	5.0	3.0	6.7	5.0	5.0	5.2	2.5	1.4
USSR (former)	274.0	250.0	230.0	220.0	100.0	100.0	79.5	91.7	92.0	95.0	50.0	48.0
SOCIALIST COUNTRIES OF ASIA	**12.5**	**55.8**	**20.2**	**70.5**	**73.7**	**79.6**	**3.8**	**19.0**	**9.3**	**36.8**	**35.4**	**38.8**
China	12.5	55.8	20.2	70.5	73.7	79.6	3.8	19.0	9.3	36.8	35.4	38.8

Source: UNCTAD secretariat.

6. World imports of ferromanganese, 1987-1992

Region country or area	Quantity (000 MT)						Value (Million US$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
WORLD	**1243.0**	**1452.2**	**1290.5**	**1223.9**	**1072.7**	**1002.8**	**489.4**	**704.5**	**863.2**	**879.9**	**753.3**	**654.6**
DEVELOPED MARKET ECONOMY COUNTRIES	**821.2**	**1037.2**	**905.8**	**870.5**	**833.6**	**783.3**	**330.7**	**519.1**	**642.3**	**676.0**	**593.9**	**517.0**
AMERICA	**355.4**	**503.0**	**380.3**	**327.1**	**296.1**	**286.2**	**139.8**	**248.8**	**297.8**	**274.2**	**235.1**	**210.2**
Canada	39.6	35.1	44.8	29.3	46.1	49.9	18.2	22.4	40.8	27.0	40.8	36.9
United States	315.8	467.9	335.5	297.8	250.0	236.3	121.4	226.4	256.8	247.2	194.3	173.3
EUROPE	**433.2**	**499.6**	**495.9**	**492.8**	**494.4**	**458.3**	**180.4**	**256.8**	**329.4**	**377.0**	**333.1**	**284.9**
EEC	*377.4*	*432.1*	*421.9*	*425.8*	*432.4*	*402.6*	*157.1*	*220.5*	*281.7*	*324.2*	*290.6*	*247.7*
Belgium-Luxembourg	59.3	64.2	50.9	47.5	64.4	53.6	23.4	30.3	32.2	36.2	39.1	32.0
Denmark	1.3	1.5	2.4	2.5	2.5	2.5	0.6	0.7	1.4	1.7	1.6	1.4
France	59.4	63.3	86.5	83.5	78.7	44.0	25.8	35.6	58.6	69.9	63.1	35.9
Germany	98.2	109.6	99.0	126.0	130.9	130.2	38.0	53.4	62.1	88.0	81.9	73.8
Greece	3.7	4.0	6.5	5.0	4.3	2.9	1.7	2.1	4.3	3.7	2.8	1.8
Ireland	0.2	-	-	-	-	-	0.1	-	-	-	-	-
Italy	89.4	89.0	90.9	78.2	77.9	91.5	36.5	43.2	56.4	54.1	44.5	47.7
Netherlands	14.3	18.8	18.3	17.6	17.2	18.4	5.8	9.2	10.7	13.0	11.4	11.0
Portugal	0.5	4.7	5.8	5.9	5.3	2.0	0.3	2.4	6.5	4.1	3.3	1.8
Spain	14.1	9.1	8.5	13.9	19.5	22.3	5.1	3.8	5.1	9.9	11.4	11.5
United Kingdom	37.0	67.9	53.1	45.7	31.7	35.2	19.8	39.8	44.4	43.6	31.5	31.0
EFTA	*55.8*	*67.5*	*74.0*	*67.0*	*62.0*	*55.7*	*23.3*	*36.3*	*47.7*	*52.8*	*42.5*	*37.2*
Austria	18.8	23.9	23.9	22.2	20.0	20.0	8.2	13.0	16.7	19.6	16.0	15.5
Finland	7.9	5.9	8.8	10.8	8.8	5.4	3.4	3.6	6.0	8.6	5.9	3.7
Norway	3.1	2.0	9.7	3.7	9.5	6.2	0.6	0.5	3.4	1.4	3.5	2.3
Sweden	26.0	31.1	27.0	24.9	19.9	20.3	11.1	16.7	18.5	19.9	14.5	13.1
Switzerland	-	4.6	4.6	5.4	3.8	3.8	-	2.5	3.1	4.3	2.6	2.6
SOUTH AFRICA	**0.1**	**0.1**	**0.1**	**0.1**	-	-	**0.1**	-	-	**0.1**	-	-
ASIA	**28.0**	**28.1**	**22.8**	**44.4**	**33.6**	**26.5**	**7.7**	**9.2**	**9.9**	**19.6**	**18.7**	**13.4**
Israel	0.6	0.7	1.0	1.1	1.0	1.0	0.5	0.7	1.2	1.3	1.0	1.0
Japan	27.4	27.4	21.8	43.3	32.6	25.5	7.2	8.5	8.7	18.3	17.7	12.4
OCEANIA	**4.5**	**6.4**	**6.7**	**6.1**	**8.5**	**12.3**	**2.9**	**4.3**	**5.4**	**5.1**	**7.0**	**8.5**
Australia	3.9	4.9	5.3	4.0	7.5	9.9	2.5	3.6	4.3	3.4	5.3	6.9
New Zealand	0.6	1.5	1.4	2.1	2.0	2.4	0.4	0.7	1.1	1.7	1.7	1.6
DEVELOPING COUNTRIES AND TERRITORIES	**194.0**	**207.8**	**211.5**	**214.8**	**200.2**	**190.3**	**76.6**	**105.4**	**149.8**	**147.7**	**139.0**	**122.8**
AMERICA	**56.1**	**53.7**	**46.1**	**37.6**	**35.0**	**22.3**	**18.7**	**23.9**	**30.8**	**27.3**	**24.7**	**17.9**
Argentina	2.9	3.9	2.4	2.1	1.0	1.9	2.1	2.5	2.3	2.2	1.2	1.9
Brazil	-	-	0.1	-	10.7	3.8	-	-	0.1	-	7.2	2.1
Chile	0.4	0.3	3.0	-	0.3	0.3	0.3	0.4	2.5	0.2	0.5	0.5
Colombia	8.6	7.2	5.8	5.0	3.7	3.9	3.6	3.4	4.1	3.7	2.8	2.6
Dominican Republic	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	-	-
Ecuador	0.3	0.4	0.3	0.3	0.2	0.1	0.1	0.3	0.2	0.3	0.2	0.1
Mexico	0.1	0.7	0.4	0.3	0.6	9.1	0.1	0.5	0.4	0.4	0.5	8.6
Paraguay	0.1	0.4	0.2	0.5	1.1	1.5	-	0.2	0.2	0.3	0.6	0.8
Peru	1.9	1.8	2.3	2.0	0.6	0.5	1.1	0.9	1.6	1.5	0.5	0.4
Trinidad and Tobago	0.2	0.2	0.1	0.1	0.2	-	0.2	0.2	0.5	1.1	0.1	-
Uruguay	0.2	0.6	0.9	0.6	0.5	-	0.1	0.4	0.8	0.5	0.7	-
Venezuela	41.0	37.9	30.4	26.5	16.0	1.1	11.0	15.0	18.0	16.9	10.4	0.9
AFRICA	**21.6**	**23.4**	**15.8**	**23.8**	**29.6**	**18.1**	**8.8**	**13.5**	**10.8**	**16.1**	**19.7**	**10.3**
North Africa	**18.7**	**19.9**	**11.7**	**19.0**	**26.9**	**16.4**	**7.6**	**11.8**	**8.1**	**12.1**	**18.2**	**9.3**
Algeria	2.2	7.3	3.8	0.5	0.2	0.2	1.1	6.4	2.7	0.7	0.7	0.7
Egypt	16.4	11.8	8.0	17.8	26.3	15.5	6.4	4.9	5.3	10.9	17.2	8.1
Morocco	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2
Tunisia	-	0.6	-	0.5	0.2	0.5	-	0.4	-	0.3	0.1	0.3
Other Africa	**2.9**	**3.5**	**4.1**	**4.8**	**2.7**	**1.7**	**1.2**	**1.7**	**2.7**	**4.0**	**1.5**	**1.0**
Kenya	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.2	0.2	0.4	-	-
Nigeria	2.5	3.0	3.5	4.0	2.0	1.0	1.1	1.5	2.5	3.2	1.2	0.7
Zimbabwe	0.1	0.2	0.3	0.5	0.6	0.6	-	-	-	0.4	0.3	0.3
ASIA	**115.2**	**128.9**	**148.6**	**146.3**	**130.6**	**149.9**	**47.5**	**65.9**	**103.5**	**98.3**	**90.6**	**94.4**
West Asia	**49.8**	**45.1**	**58.5**	**38.3**	**41.8**	**50.7**	**17.1**	**21.5**	**39.1**	**25.3**	**25.3**	**28.7**
Iran (Islamic Republic of)	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.4	0.6	0.7	0.5	0.5
Iraq	0.1	0.1	0.1	-	-	-	-	-	-	-	-	-
Qatar	2.0	2.0	2.0	2.0	7.0	7.0	1.1	1.2	1.2	1.3	5.0	4.8

6. World imports of ferromanganese, 1987-1992
(continued)

Region country or area	Quantity (000 MT)						Value (Million US$)					
	1987	1988	1989	1990	1991	1992	1987	1988	1989	1990	1991	1992
Saudi Arabia	-	-	0.3	0.3	0.5	0.5	-	-	0.3	0.3	0.4	0.4
Syrian Arab Republic	5.0	6.0	4.0	3.0	3.0	2.0	1.5	2.0	3.5	3.0	2.5	1.7
Turkey	41.7	36.0	51.1	32.0	30.1	40.2	14.3	17.9	33.5	20.0	18.9	21.3
South and South-East Asia	**65.4**	**83.8**	**88.1**	**108.0**	**89.0**	**99.2**	**30.4**	**44.4**	**64.4**	**73.0**	**65.3**	**85.7**
Bangladesh	0.3	-	-	-	-	-	0.3	-	-	-	-	-
Hong Kong	2.4	8.7	8.9	12.2	14.1	5.7	1.1	4.2	4.2	7.0	7.3	3.0
India	0.2	0.3	-	0.2	0.1	0.2	0.2	0.2	-	0.3	0.1	0.1
Indonesia	13.7	6.8	21.6	17.7	17.5	15.6	5.1	3.9	12.0	11.4	10.9	9.5
Malaysia	5.2	17.2	7.6	15.9	9.0	7.5	5.0	10.6	12.1	14.4	14.8	12.0
Pakistan	12.4	11.3	12.2	21.3	8.3	8.2	4.8	4.5	9.1	12.2	5.2	4.6
Philippines	2.3	3.9	4.0	2.5	2.3	2.8	1.2	2.2	2.4	1.7	1.5	1.9
Republic of Korea	4.4	3.7	4.3	7.9	9.1	26.6	2.6	2.6	5.1	6.2	7.6	16.6
Singapore	2.0	1.2	3.9	2.4	3.1	3.2	0.8	0.6	2.4	1.5	1.8	1.7
Taiwan	18.9	23.9	18.9	21.1	20.0	20.0	7.5	11.7	12.4	13.1	12.0	11.7
Thailand	3.6	6.8	6.7	6.8	5.5	9.4	1.8	3.9	4.7	5.2	4.1	5.6
EUROPE	**1.1**	**1.6**	**3.0**	**6.9**	**5.0**	-	**1.6**	**2.1**	**4.5**	**6.0**	**4.0**	-
Yugoslavia (former)	1.1	1.6	3.0	6.9	5.0	-	1.6	2.1	4.5	6.0	4.0	-
Least developed countries	**0.3**	-	-	-	-	-	**0.3**	-	-	-	-	-
Mainly commodity exporting countries	**0.9**	**1.0**	**3.4**	**0.7**	**1.5**	**1.9**	**0.4**	**0.7**	**2.8**	**0.7**	**1.1**	**1.3**
COUNTRIES IN EASTERN EUROPE	**220.3**	**205.4**	**170.8**	**137.3**	**37.4**	**27.6**	**79.2**	**79.3**	**89.5**	**55.2**	**19.4**	**14.0**
Albania	1.0	1.0	0.8	0.8	0.7	0.3	0.5	0.6	0.4	0.4	0.4	0.1
Bulgaria	4.0	3.0	6.0	4.0	3.0	3.0	1.4	1.3	2.2	1.4	1.0	1.5
Czechoslovakia (former)	35.0	15.0	6.5	4.3	4.0	2.0	14.0	7.0	5.4	3.7	3.4	1.5
Germany (former DR)	73.0	75.0	60.0	35.0	-	-	29.0	30.0	27.0	16.0	-	-
Hungary	38.3	38.4	30.0	25.0	10.1	7.3	5.9	11.0	16.0	15.0	5.6	3.9
Poland	21.0	25.0	20.0	20.0	15.0	12.0	8.4	8.4	8.0	8.0	7.0	5.5
Romania	50.0	50.0	47.5	48.2	4.6	3.0	20.0	21.0	10.5	10.7	2.0	1.5
SOCIALIST COUNTRIES OF ASIA	**7.5**	**2.0**	**2.4**	**1.5**	**1.5**	**1.6**	**2.9**	**0.7**	**1.8**	**1.0**	**1.0**	**1.0**
China	0.8	0.5	1.0	-	-	0.1	0.4	0.3	0.8	-	-	0.1
Democratic People's Republic of Korea	6.7	1.5	1.4	1.5	1.5	1.5	2.5	0.4	1.0	1.0	1.0	0.9

Source: UNCTAD secretariat.